

CLAIMS

1. Method for transmitting data from several first stations (1a-1n) to a second station (2), the first stations each comprising at least a first transmitter (11), a first receiver (12) and a first clock (16), and the second station (2) comprising at least a second transmitter (21), a second receiver (22) and a second clock (26), the method comprising:

- transmitting, in a synchronisation time slot (5) of a time window (4), a synchronisation message (SYN) from the second station (2) to the first stations (1),
- transmitting, in a selection time slot (6) of the time window (4), selection messages (SEL) from the second station (2) to selected first stations (1),
- transmitting, in response time slots (8) of the time window (4), data from selected first stations (1) to the second station (2),

characterised by transmitting, in a single selection time slot (6), the selection messages (SEL) and by deactivating, by each first station (1), its receiver (12) if no respective selection message (SEL) has been transmitted.

2. Method according to claim 1, wherein the deactivation takes place at the end of the selection time slot (6).

3. Method according to claim 1, wherein the selection messages (SEL) are transmitted in a predetermined sequence and the deactivation takes place based on the sequence.

4. Method according to claim 3, wherein several sequences are applied and a sequence indication of the sequence to be applied in a specific time window (4) is transmitted by the second station (2) in the synchronisation time slot (5).

5. Method according to any ^{one} of the ~~preceding~~ ¹⁻⁴ claims, wherein the selection messages (SEL) each contain a time indication (TR) of the response time slots (8).

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